EXMILITA POSIUL PAGE

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd

OM protein - protein search, using sw model

Run on:

March 30, 2005, 19:30:30 ; Search time 72 Seconds (without alignments) 886.326 Million cell updates/sec

Title: Perfect score:

US-09-786-867C-5 893 1 MTTASISQVRQNYHQDSEAA......PRRRKRPHSIPTPILIFRSP 165 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 seqs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

A\_Geneseq\_16Dec04:\*

1: geneseqp1980s:\*

2: geneseqp2000s:\*

4: geneseqp2001s:\*

5: geneseqp201s:\*

6: geneseqp201s:\*

7: geneseqp203as:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:\*

SUMMARIES

SALS	Description	Aay53271 Human onc		Aab90804 Human she	Add22444 HLA-B46 T	Adil5887 Human PP	Abm81295 Tumour-as	Adg42360 Ferritin	Adg29701 Human col		Abb97273 Novel hum		Adg82746 Recombina		Abp69305 Human pol	Mouse		Abm81021 Tumour-as	_	Human	Abg32428 Human sec	Aae09630 Human gen	Adg62935 Novel hum	Abm80602 Tumour-as	Abm80723 Tumour-as	Abg28304 Novel hum
SUMMAKIES	a a	AAY53271	AAR71567	AAB90804	ADD22444	ADI15887	ABM81295	ADG42360	ADQ29701	ADP24691	ABB97273	ABR41768	ADQ82746	ADN31067	ABP69305	AAU27741	ABU11456	ABM81021	AA004400	ABP42274	ABG32428	AAE09630	ADG62935	ABM80602	ABM80723	ABG28304
	DB	<u>_</u> m	~	4	7	7	æ	7	80	œ	'n	9	œ	7	S	4	9	æ	4	Ŋ	ß	4	2	œ	80	4
	Query Match Length	165	183	183	183	183	183	190	190	190	206	222	362	183	180	182	227	165	148	127	242	173	173	146	373	621
de	Query Match	98.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.4	65.0	65.0	65.0	64.8	60.5	•	55.3	53.4	53.4	47.5	47.2	47.1
	Score	881	615.5	'n.	'n.	ď.	615.5	615.5	'n	'n		615.5	615.5	610.5	580.5	580.5	580.5	579	540	523.5	494	477	477	424.5	421.5	421
	Result No.	1	~	m	4	S	9	7	80	0	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24	25

Abg21478 Novel hum Aau07890 Polypepti Adg4955 Cancer-as Abg12069 Novel hum Abg07849 Novel hum Abg07849 Novel hum Abc0784177 Human met Abg27400 Novel hum Abg27401 Human nov Adc31487 Human nov Adc31487 Human nov Abb96653 Amino aci Abb96654 Amino aci Abb27399 Novel hum Abg17463 Human gen Abb27399 Novel hum Abg27399 Nov
ABG21478 AAU07890 AAG012069 ABG012069 ABG07849 ABG27400 ABG27400 ABG27400 ABG27400 ABG27309 ABG27399 AAG07889 AABS8474 ABFS8474 ABFS8478
447448641087684446106
275 1833 7133 7133 7133 7133 1144 126 137 178 178 178 178 178
44444444444444444444444444444444444444
116. 3099. 3099. 3099. 3099. 3090. 309
00000000000000000000000000000000000000

## ALIGNMENTS

RESULT 1

AAYS3271 standard; protein; 165 AA.

AAY53271;

20-JUL-2000 (first entry)

Human oncofoetal ferritin 1 protein sequence.

Human, oncofoetal ferritin 1; OFF1; ferritin; transplantation; pathological pregnancy; breads cancer; cytostatic; immunosuppressive; contraceptive; abortive; nootropic; vaccine; immunisation; cancer; transplant rejection, autoimmune disease; fertilisation; diagnosis; in vitro fertilization; IVF; heptablastoma; Hodykin's lymphoma; nutro fertilization; IVF; heptablastoma; Hodykin's lymphoma; embryonal tumour; Down's Syndrome; spontaneous abortion; miscarriage; premature contraction; toxaemia; premature delivery

Homo sapiens

WO200015788-A2.

23-MAR-2000.

99WO-IL000485. 08-SEP-1999;

98IL-00126181. 11-SEP-1998; (GARD-) GARDINO INVESTMENT NV.

Moroz C;

WPI; 2000-271427/23.

N-PSDB; AAA13647

DNA sequence coding for oncofetal ferritin 1 protein, useful for immunizatons against breast cancer, for enhancing fertilization rates during in vitro fertilization treatment and for use as a growth factor of bone-marrow progenitor cells.

Example 7; Fig 5; 66pp; English.

The present sequence represents the human oncofetal ferritin 1 (OFF1) protein. OFF1 has cytostatic, immunosuppressive, contraceptive, abortive and noctropic activities, and can be used as a vaccine. Compositions comprising the expression vector containing an OFF1 coding sequence, and the OFF1 protein, are useful: (a) for immunisations against cancer,

especially breast cancer; (b) in the treatment of transplant rejections, autoimmune diseases, pathological pregnancies; (c) for enhancing fertilisation rates during in vitro fertilisation (IVF) treatment; and (d) for use as a growth feator of bone-marrow progenitor cells such as granulocyte monocytes. The OFFI nucleotide sequence is useful for diagnosing cancer such as breast cancer, heptablastoma, leukaemia, Hodgkin's and non-Hodgkin's lymphomas and embryonal tumours, Down's Syndrome, and pathological pregnancies such as spontaneous abortion aniscarriage, premature contractions, toxaemia or premature delivery

Sequence 165 AA;

ö MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS Gaps . 0 Length 165; 1; Indels Score 881; DB 3; Pred. No. 6.4e-90; 1; Mismatches 1. 98.7**%**; 98.8**%**; Query Match
Best Local Similarity 98.8
Matches 163; Conservative ò 셤

HEERQHAEKLAMKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVNQSLLEFPS 120 

a 8

8 셤

RESULT 2 AAR71567

AAR71567 standard; protein; 183

AAR71567;

(first entry) 01-NOV-1995

Human monocyte growth factor.

cancer cell line; Monocyte growth factor; human; lung; cellular immune function; macrophage.

Homo sapiens

JP07031482-A

03-FEB-1995.

93JP-00200129 21-JUL-1993; 93JP-00200129 21-JUL-1993;

(LIFE-) ZH LIFE TECHNOLOGY KENKYUSHO.

WPI; 1995-109536/15. N-PSDB; AAQ85979.

- useful for DNA Recombinant human monocyte growth factor and its coding stimulation of cellular immune function and macrophage. 

Claim 1; Page 2; 12pp; Japanese.

The amino acid sequence of a novel monocyte growth factor. The protein was isolated from a human lung cancer cell line, T3M-30Lu (FERM BF3120). The sequence of the procein was determined by amino acid sequencing following cleavage of the purfiled protein by V8 protease. The gene encoding this protein can be used to produce recombinant monocyte growth factor which can be used for stimulation of cellular immune function and

Sequence 183 AA;

Query Match

Length 183; DB 2; 68.9%; Score 615.5;

ñ HEBRQHABKLAKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVNQSLLEFPS 120 Human; shear stress-response protein; vascular disease; arteriosclerosis. 9 9 7 61 HEBROHAEKLMKLONORGGRIFLODIKKPDCDDWESGLNAMECALHLEROVNOSLLEFPS 120 61 HEEREHAEKLAKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKOVVQSLLEL-- 118 9 9 1 MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS Gaps Sakurada K; 1 MITASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS Gaps encoded by them and antibodies against them treatment of vascular disease caused by The present invention provides the protein and coding sequences of a number of human shear stress response proteins. These are useful in diagnosis, treatment and screening of vascular diseases caused by arteriosclerosis, including heart failure, post-PTCA restenosis and 13; 13; Length 183; Pred. No. 3.7e-60; Kawabata A, Indels Human shear stress-response protein SEQ ID NO: 108. DB 4; Score 615.5; DB 4; Pred. No. 3.7e-60; 3; Mismatches 6; 3; Mismatches Ļ M, Ota T, Sugano S; Claim 60; Page 539-540; 678pp; Japanese. | |: | || -------HKLATDKNDP--HL 130 121 PISPSPSCWHHYTTNRPQPQHHL 143 AAB90804 standard; protein; 183 AA. H, Obayashi Nakamura Y, 84.6%; 02-OCT-2000; 2000WO-JP006840. Ř 68.9%; ilarity 84.6%; Conservative (KYOW ) KYOWA HAKKO KOGYO (NOJI/) NOJIMA H. 121; Conservative DNA sequences, proteins useful in diagnosis and Yoshisue WPI; 2001-266308/27. Similarity Sekine S, Similarity N-PSDB; AAH02927. arteriosclerosis. Sequence 183 AA; WO200125427-A1. Homo sapiens. 01-OCT-1999; 15-JUN-2001 12-APR-2001. Appertension Best Local Sim: Matches 121; Nojima H, 61 61 119 AAB90804; Best Local Matches 12 Query Match Kuga T, RESULT 3 AAB90804 용 ઠે 셤 셤 ò 8 g à 셤